### PATENT COOPERATION TREATY

### **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PHNL031316WO	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/IB2004/052281	International filing date (day/month/year) 03 November 2004 (03.11.2004)	Priority date (day/month/year) 13 November 2003 (13.11.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V.					

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).								
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.								
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.								
3.	3. This report contains indications relating to the following items:								
	Box No. I	Basis of the report							
	Box No. II	Priority							
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	Box No. IV	Lack of unity of invention							
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	. VI Certain documents cited							
	Box No. VII	Certain defects in the international application							
	Box No. VIII	Certain observations on the international application							
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).								
		Date of issuance of this report 15 May 2006 (15.05.2006)							

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

### PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below see form PCT/ISA/220 Priority date (day/month/year) International filing date (day/month/year) International application No. 13.11.2003 03.11.2004 PCT/B2004/052281 International Patent Classification (IPC) or both national classification and IPC G06F13/16 Applicant KONINKLIJKE PHILIPS ELECTRONICS N.V.

This opinion contains indications relating to the following items:

$\boxtimes$	Box No. I	Basis of the opinion
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☐ Box No. II Priority

☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the International application

☐ Box No. VIII Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

**Authorized Officer** 

<u>a</u>

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/052281

	Box No. I	Basis of the opinion
1.	With regar	d to the <b>language</b> , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	langu	pinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search r Rules 12.3 and 23.1(b)).
2.	With regar	d to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type of	material:
	□ a:	sequence listing
	☐ tal	ple(s) related to the sequence listing
	b. format	of material:
	□ in	written format
	□ in	computer readable form
	c. time of	filing/furnishing:
	□ cc	ontained in the international application as filed.
	☐ fil	ed together with the international application in computer readable form.
	☐ fu	rnished subsequently to this Authority for the purposes of search.
3	has b	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as appriate, were furnished.
4	. Additiona	I comments:

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/052281

	No. III Non-establishment of licability	opir	nion with regard to novelty, inventive step and industrial		
The obv	questions whether the claimed in lous), or to be industrially applica	ivent ble h	tion appears to be novel, to involve an inventive step (to be non ave not been examined in respect of:		
	the entire international application	n,			
$\boxtimes$	claims Nos. 9-11, 13				
bec	ause:				
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):				
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
⊠	no international search report has been established for the whole application or for said claims Nos. 9-11,				
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Anna C of the Administrative Instructions in that:				
	the written form		has not been furnished		
			does not comply with the standard		
	the computer readable form		has not been furnished		
			does not comply with the standard		
	the tables related to the nucleot not comply with the technical re	ide a quire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.		
	See separate sheet for further of	detai	Is		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/052281

_	Во	x No. IV	Lack of unity of it	nvention				
1. ☑ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:						itional fees, the applicant has:		
			paid additional fees.					
			paid additional fees	under pro	otest.			
		⊠	not paid additional fo	es.				
2.		This A	uthority found that the plicant to pay addition	e requirer nal fees.	nent of uni	ty of inventio	on is not complied with and chose not to invite	
3.	Thi	s Autho	rity considers that the	requiren	nent of unit	y of invention	n in accordance with Rule 13.1, 13.2 and 13.3	is
		complie	d with					
		•	plied with for the follo	owina rea	sons:			
	_		eparate sheet					
	0-		•	oon ootob	liched in r	annoat of the	following parts of the international application:	
4.	Co	nseque	ntly, this report has be	en estad	nisneu in re	espect of the	following parts of the international application.	•
	□ all parts.							
_	Bo	x No. V	Reasoned staten	nent und	er Rule 43 explanatio	i <i>bis</i> .1(a)(i) w	vith regard to novelty, inventive step or ng such statement	
1	. Sta	atement				.,		
	No	ovelty (N		Yes: No:	Claims Claims	1-8,12		
	lnv	entive s	step (IS)	Yes: No:	Claims Claims	1-8,12		
	lno	dustrial a	applicability (IA)	Yes: No:	Claims Claims	1-8,12		

Form PCT/ISA/237 (January 2004)

2. Citations and explanations see separate sheet

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PCT/IB2004/052281

### Re Item IV.

The separate inventions/groups of inventions are:

see International Search Report.

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

see International Search Report.

### Re Item V.

Reference is made to the following documents:

D2: US6366984

#### 1. Claim 1:

Closest prior art: D2 (US6366984) discloses an electronic data processing circuit, comprising a plurality of data handling units with data outputs at least part of the data handling units having address outputs (applies to any parallel bus system; with reference to D2 it is referred to figure 4); a bus with address lines and data lines, the data lines supporting simultaneous transfer of up to a maximum number of bits in a bus cycle (also applies to any parallel bus system); a bus controller coupled to the data handling units arranged to control access to the bus in successive access cycles (any bus system need a device controlling the bus access; D2/figures 1 and 4); causing data bits from a plurality of data words of less than said maximum number of bits (from respective ones of the data handling units) to be placed in combination on the data lines in a same bus cycle (D2 discloses to combine data of a plurality of store operations in a write combining buffer - column 1/line 64-column 2/line 14).

Characterizing features: Claim 1 is characterized by causing write addresses to be placed on the address lines in a plurality of respective bus cycles that the respective

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

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ones of the data handling units supply for respective ones of the plurality of data words. Thus, claim 1 is new, Article 33(2) PCT.

**Problem solved:** this solves the problem of efficiently using the data bus in order to transfer data words of varying size form different data handling units to receiving circuits.

**Inventive step:** this solution is considered as inventive because it is neither disclosed nor derivable from any of the available prior art documents. The requirements of Article 33(3) PCT concerning inventive step are complied with.

### 2. Claim 12:

Independent claim 12 discloses a method which corresponds to the apparatus according to claim 1. Thus, also claim 12 meets the requirements of Article 33 PCT.

#### 3. Claims 2-8:

Claims 2-8 depend on claim 1 which was found novel and inventive. Thus, also claims 2-8 meet the requirements of Article 33 PCT.